

**REMARKS/ARGUMENTS**

Applicants respectfully request reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Claim 7 is requested to be cancelled. Claims 1, 6, and 8-20 are currently being amended. Claims 21-26 are being added. After amending the claims as set forth above, Claims 1-6 and 8-26 are now pending in this application.

**Rejections Under 35 U.S.C. § 102(e)**

In Section 1 of the Office Action, the Examiner rejected Claims 1-4 and 12-20 under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,549,014 to Kutkut et al. (hereinafter “Kutkut”). Applicants respectfully assert that Kutkut does not anticipate any of Applicants’ claims, as amended.

Claim 1 has been amended to require “a controller that receives the digital signal and the measured actual current and computes a correction factor using the received digital signal and the received actual current,” where the digital signal “represents a current in the conductive element.” Independent Claim 12 has been amended also to require “a controller programmed to receive an actual current measurement and the digital signal and to compute a correction factor using the received actual current measurement and the received digital signal.”

In Section 8 of the Office Action, while discussing allowable subject matter, the Examiner states that the “art of record does not teach, disclose, or suggest” “a measuring device wherein a sensed current is measured with the device, and that sensed current is compared with an actual current measurement, and from them a correction factor or line is formed.” As a result, Applicants respectfully assert that Claims 1 and 12 recite allowable subject matter.

Applicants also respectfully assert that Claims 2-4 and 13-20, which depend from Claims 1 and 12, respectively, recite allowable subject matter for at least the reasons discussed above. Therefore, Applicants respectfully request the withdrawal of the rejections of Claims 1-4 and 12-20.

**Rejections Under 35 U.S.C. § 103(a)**

**Claims 5-7**

In Section 3 of the Office Action, Claim 5 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Kutkut in view of U.S. Patent No. 6,850,037 to Bertness et al. (hereinafter “Bertness”). In Section 4 of the Office Action, Claim 6 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Kutkut in view of Bertness and further in view of U.S. Patent No. 6,522,123 to Ribes (hereinafter “Ribes”). In Section 5 of the Office Action, Claim 7 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Kutkut in view of U.S. Patent No. 6,544,078 to Palmisano et al. (hereinafter “Palmisano”). Claim 7 has been cancelled rendering this rejection moot.

As discussed above, Applicants respectfully assert that Claim 1 recites allowable subject matter. Claims 5 and 6 depend from Claim 1. Therefore, Applicants respectfully assert that Claims 5 and 6 are now in condition for allowance. As a result, Applicants respectfully request withdrawal of the rejections of Claims 5 and 6.

**Claim 9**

In Section 6 of the Office Action, Claim 9 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Kutkut in view of Ribes. Applicants respectfully assert that Claim 9 is now in condition for allowance.

Independent Claim 9 has been amended to require “performing a calibration procedure by which a correction factor is computed using an actual current measurement and the sensed current.” As discussed above, the Examiner states in Section 8 of the Office Action that the “art of record does not teach, disclose, or suggest” “a measuring device wherein a sensed current is measured with the device, and that sensed current is compared with an actual current measurement, and from them a correction factor or line is formed.” As a result, Applicants respectfully assert that Claim 9 recites allowable subject matter. Therefore, Applicants respectfully request the withdrawal of the rejection of Claim 9.

**New Claims 21-26**

New claims 21 and 22 depend from Claim 1. New Claim 23 depends from Claim 9. New Claims 24-26 depend from claim 12. As discussed above, Applicants respectfully assert that Claims 1, 9, and 12 recite allowable subject matter. Therefore, Applicants respectfully assert that Claims 21-26 are in condition for allowance.

Applicants believe that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-2350. Should no proper payment be enclosed herewith, as by a check or credit card payment form being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-2350. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 50-2350.

Respectfully submitted,

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FOLEY & LARDNER LLP  
Customer Number: 23524  
Telephone: (608) 258-4263  
Facsimile: (608) 258-4258

By Callie Bell

Callie M. Bell  
Attorney for Applicants  
Registration No. 54,989